

## ABSTRACT:

The invention relates to a display device for rendering gray tone images on a monitor (31) controlled by  $s$  electron rays, wherein a correction unit (33) is provided for generating  $s$  output image signals  $A_s$ , which comprise gray tone values forming part of a set  $K$  of correction gray tones, from an image signal (34) which comprises gray tone values forming part of a set  $M$  of original gray tones (23), and the  $s$  output image signals  $A_s$ , after a D/A conversion, are fed each to one electron ray for a brightness-corrected rendering of a gray tone in one pixel of the monitor (31) for the purpose of adapting the brightness distribution of the monitor to the optimum perceptual brightness distribution.

10 Fig. 3